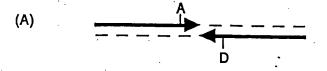


Figure 1

$$NH_2$$
 NH_2
 NH_2
 NH_2
 NH_3
 NH_4
 NH_5
 NH_6
 NH_7
 NH_8
 NH_9
 NH_9

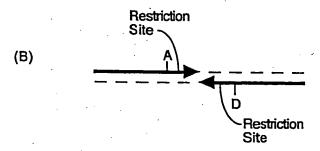
meta-EthD

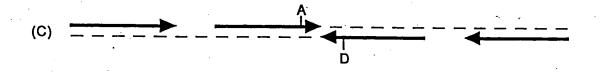
Figure 2



A = Energy Acceptor

D = Energy Donor





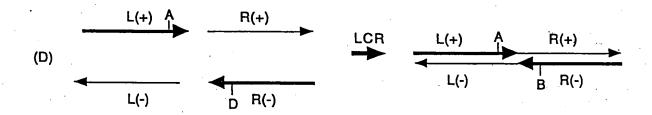
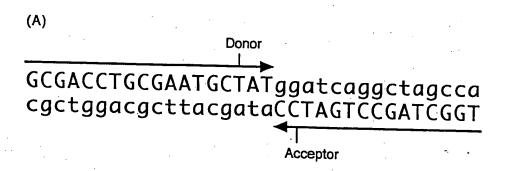


Figure 3

Target Sequence

——GCGACCTGCGAATGCTATGGATCAGGCTAGCCA———CGCTGGACGCTTACGATACCTAGTCCGATCGGT——



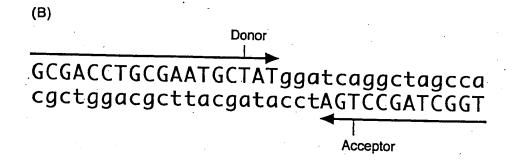


Figure 4

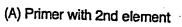
(A) PCR

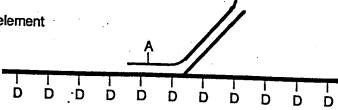
(B) SDA

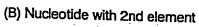
(C) GAP-LCR

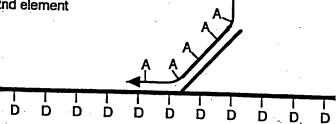
A = Energy Acceptor

Figure 5 D = Energy Donor

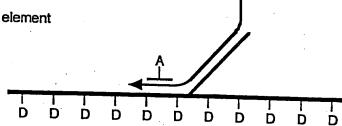




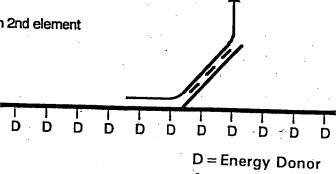




(B) Probe with 2nd element



(B) Intercalators with 2nd element



A = Energy Acceptor

Figure 6

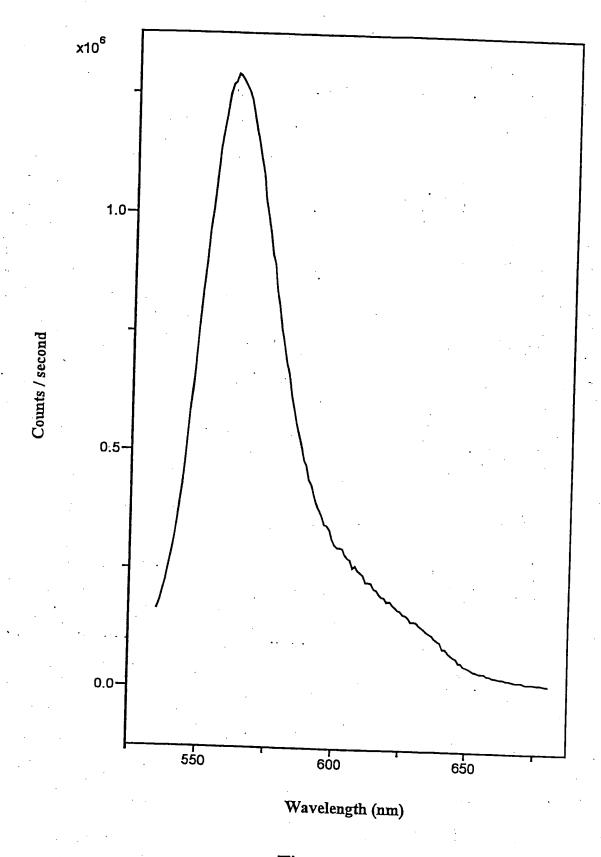


Figure 7

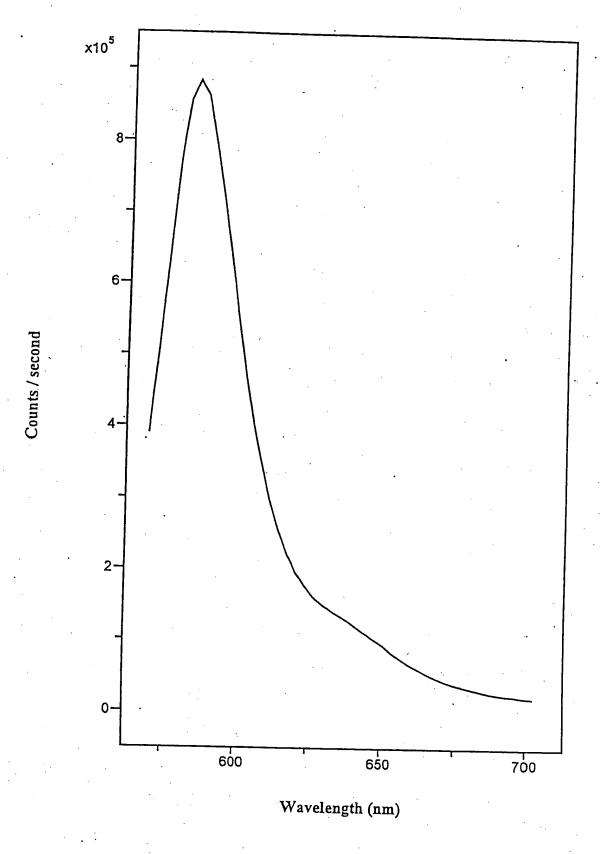
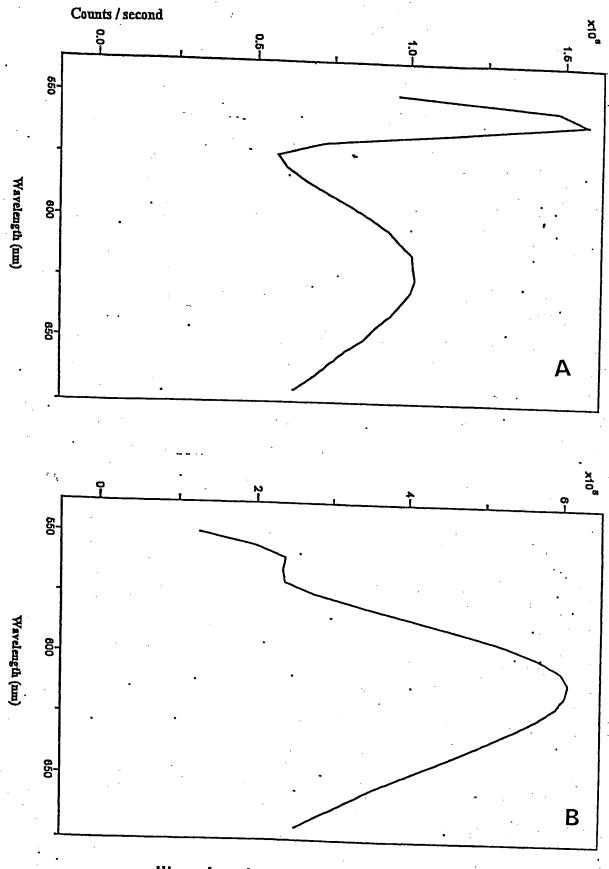


Figure 8

Figure 9



Illumination at 472 nM Figure 10

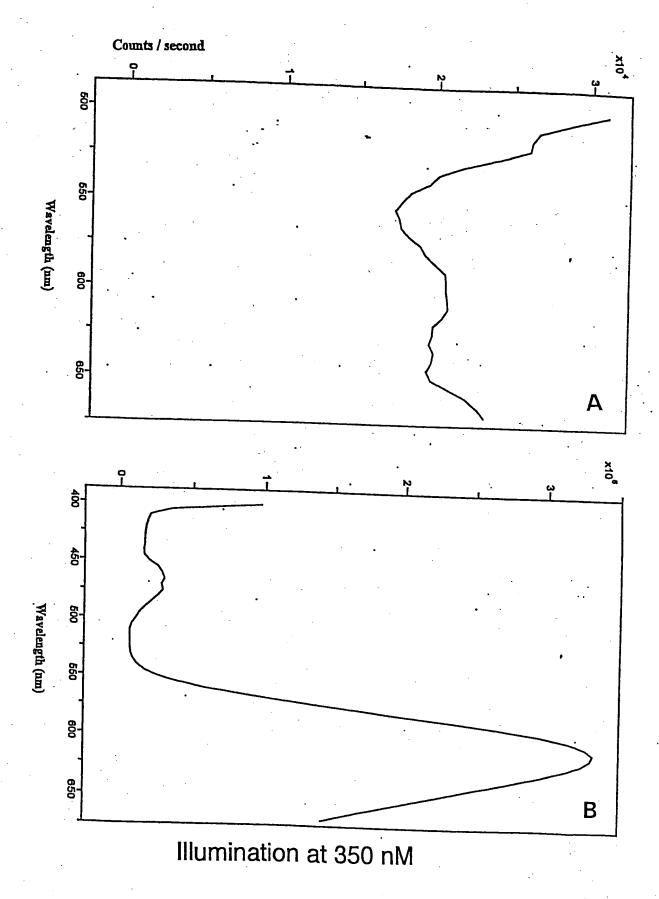


Figure 11

HIV Anti-sense Amplicon

Forward Primer

catgatccgg atgggaggtg

Hybridization Probe

taatggtg agtatccctg cctaactct

ggatgtgc cctacacg agtatccctg cctaactcta ttcactatcc aagtgatagg ggattgagat tcatagggac ctattaccac gataatggtg atgggaggtg ggtctgaaac taccetccac ccagactttg ccagactttg catgatccgg gtactaggcc

agat aagtgatagg cctacacg Reverse Primer

Figure 12

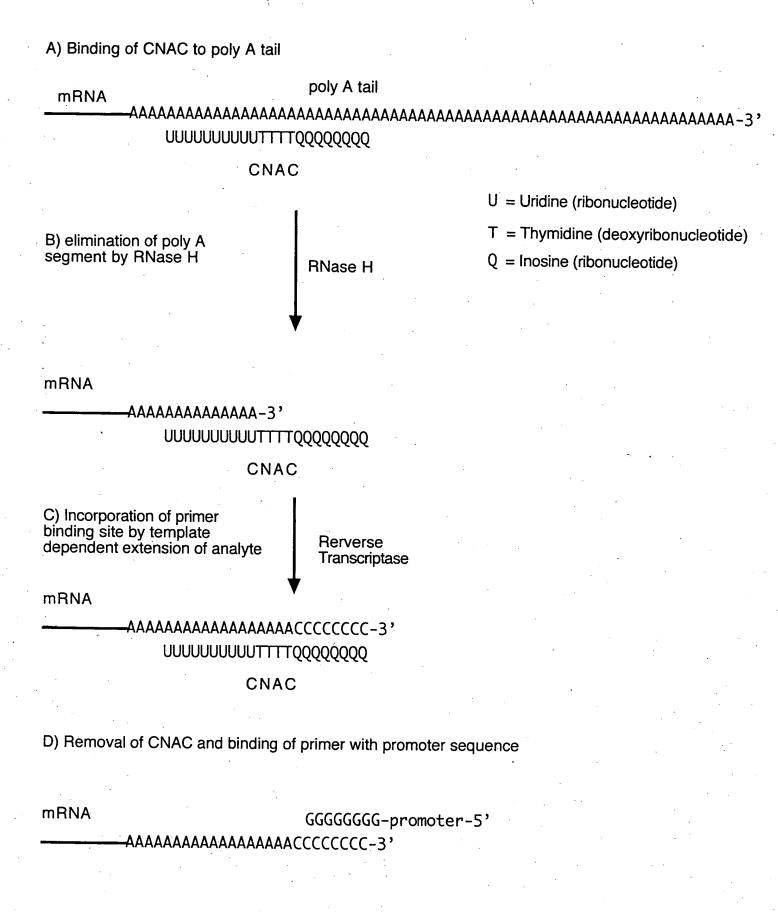


Figure 15